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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/673,628	12/08/2000	Masato Higashi	43890-448	3423	
7	590 09/09/2004		EXAM	INER	
Mcdermott Will & Emery 600 13th Street NW			RIMELL, SAMUEL G		
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER '	•
			2175		

DATE MAILED: 09/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> •</u>		(1)				
	Application No.	Applicant(s)				
1	09/673,628	HIGASHI, MASATO				
Office Action Summary	Examiner	Art Unit				
	Sam Rimell	2175				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, and I no period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some and patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a reply be to the following of thirty (30) do the fo	imely filed  ays will be considered timely.  m the mailing date of this communication.  IED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on _						
	This action is non-final.					
3) Since this application is in condition for all	owance except for formal matters, p	rosecution as to the merits is				
closed in accordance with the practice und	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-8 and 10-12 is/are pending in the day of the above claim(s) is/are with 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-8 and 10-12 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and	ndrawn from consideration.					
Application Papers						
9) The specification is objected to by the Exar 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co	accepted or b) objected to by the the drawing(s) be held in abeyance. Some prection is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for form  a) All b) Some * c) None of:  1. Certified copies of the priority docum  2. Certified copies of the priority docum  3. Copies of the certified copies of the application from the International But  * See the attached detailed Office action for a	nents have been received. nents have been received in Applica priority documents have been receiverau (PCT Rule 17.2(a)).	ntion No ved in this National Stage				
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date</li> </ol>						

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 09/673,628

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<u>Preliminary Note:</u> This office action includes new grounds of rejection which are based on prior art not previously of record. Accordingly, this office action is made non-final.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-8 and 10-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Machida (U.S. Patent 6,209,606).

Claim 1: FIG. 1 illustrates a computer system. The computer system is composed of a plurality of disk devices (30-1 through 30-n). FIGS. 6-7 illustrate an updating program that updates firmware from a reference disk to a replaced disk. Step S5 of FIG. 6 is further detailed in FIG. 7, and shows that that the updating of firmware is performed after the a parameter (version number) of the reference disk is compared to a version number of the replaced disk (steps S15-S17). If the version number of the reference disk is higher, the firmware is updated to the replaced disk (steps S5 through S8 of FIG. 6).

Claim 2: FIGS. 6-7 illustrate method steps for updating firmware in a system having a plurality of disk devices (FIG. 1, disks 30-1 through 30-n). Step S1 is the starting step. Step s& involves transmitting the firmware update from the first memory of one of the disk devices (the memory of the reference disk) to a second memory (transfer buffer 107). The second step involves transmitting the firmware update from the second memory (transfer buffer 107) to the

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updated disk (replaced disk). The second memory can further receive additional updated firmware when additional disks are to be updated.

<u>Claim 3:</u> As seen in FIG. 5, each disk has stored specific information. This specific information includes a model name (Type A), and revision number showing a version of the firmware (version number 0003, for example). As seen in step S16 in FIG. 7, the programming assures that the latest revision number is applied to the replaced disk. The actual transmission of the latest revision is accomplished at steps S7-S8 in FIG. 6.

Claim 4: As seen in FIG. 5, the specific information for each disk includes a model name (Type A) and version number (version number 0003, for example). In following the steps of FIGS. 6-7, the reference disk will have a different revision number than the replaced disk. At the same time, model numbers of the disks may be the same (FIG. 5 and col. 8, lines 36-37).

<u>Claim 5:</u> See remarks for claim 4. Note that version numbers fall within a revision number range from 0001 to 0003 (See FIGS. 8A-8D which illustrates the ranges of revision numbers).

<u>Claim 6:</u> See remarks for claim 4. Note that the updated firmware will have the latest revision number (steps S15 through S17 of FIG. 7) as well as be within a range of revision numbers (FIGS. 8A-8D).

<u>Claim 7:</u> The program steps of FIGS. 6-7 are invoked when the system is on.

<u>Claim 8:</u> FIG. 1 illustrates a computer system/ FIGS. 6-7 is an update program for updating firmware of the disk devices. The disk themselves define first memory. The buffer (107) is second memory. The updated firmware is transmitted from the reference disk to the

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second memory (buffer memory 107) and then from the second memory (buffer memory 107) to a replaced disk.

<u>Claim 10:</u> As seen in FIG. 7, the system compares a parameter (version number) of the reference disk to a parameter (version number) of the replaced disk. If the version number of the reference disk is higher, the version on the reference disk is transmitted to the replaced disk.

Claim 11: See remarks for claim 10.

<u>Claim 12:</u> The second memory is the transfer buffer 107 shown in S7 of FIG. 6 and stores the firmware while it is being transferred to the replaced disk.

## Remarks

Applicant's arguments are moot in light of the new grounds of rejection. This office action is made non-final.

Any inquiry concerning this communication should be directed to Sam Rimell at telephone number (703) 306-5626.

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Art Unit 2175